FIG. 1

ATGGCGGATTCCAGCGAAGGCCCCCGCGCGGGGCCCGGGGAGGTGGCTGAGCTCCCCGGGGATG
AGAGTGGCACCCCAGGTGGGGAGGCTTTTCCTCTCTCCTCCCTGGCCAATCTGTTTGAGGGGGA
GGATGGCTCCCTTTCGCCCTCACCGGCTGATGCCAGTCGCCCTGCTGGCCCAGGCGATGGGCGA
CCAAATCTGCGCATGAAGTTCCAGGGCGCCTTCCGCAAGGGGGTGCCCAACCCCATCGATCTGC
TGGAGTCCACCCTATATGAGTCCTCGGTGGTGCCTGGGCCCAAGAAAGCACCCATGGACTCACT
GTTTGACTACGGCACCTATCGTCACCACTCCAGTGACAACAAGAGGTGGAGGAAGAAGATCATA
GAGAAGCAGCCGCAGAGCCCCAAAGCTCCCGCCCCTCAGCCGCCCCCCATCCTCAAAGTCTTCA
ACCGGCCCATCCTCTTTGACATCGTGTCCCGGGGCTCCACTGCTGACCTGGACGGGCTGCTCCC
ATTCTTGCTGACCCACAAGAAACGCCTAACTGATGAGGAGTTTCGGGAACCATCTACGGGGAAG
ACCTGCCTGCCCAAGGCCTTGCTGAACCTGAGCAATGGCCGCAACGACACCATCCCTGTGCTGC
TGGACATCGCGGAGCGCACCGGCAACATGAGGGAGTTCATTAACTCGCCCTTCCGTGACATCTA
CTATCGAGGGCAGACAGCCCTGCACATCGCCATTGAGCGTCGCTGCAAACACTACGTGGAACTT
CTCGTGGCCCAGGGAGCTGATGTCCACGCCCAGGCCCGTGGGCGCTTCTTCCAGCCCAAGGATG
AGGGGGGCTACTTCTACTTTGGGGAGCTGCCCCTGTCGCTGGCTGCCTGCACCAACCAGCCCCA
CATTGTCAACTACCTGACGGAGAACCCCCACAAGAAGGCGGACATGCGGCGCCAGGACTCGCGA
GGCAACACAGTGCTGCATGCGCTGGTGGCCATTGCTGACAACACCCGTGAGAACACCAAGTTTG
TTACCAAGATGTACGACCTGCTGCTGCTCAAGTGTGCCCGCCTCTTCCCCGACAGCAACCTGGA
GGCCGTGCTCAACAACGACGGCCTCTCGCCCCTCATGATGGCTGCCAAGACGGGCAAGATTGGG
GTCTTTCAGCACATCATCCGGCGGGAGGTGACGGATGAGGACACACGGCACCTGTCCCGCAAGT
TCAAGGACTGGGCCTATGGGCCAGTGTATTCCTCGCTTTATGACCTCTCCTCCCTGGACACGTG
TGGGGAAGAGGCCTCCGTGCTGGAGATCCTGGTGTACAACAGCAAGATTGAGAACCGCCACGAG
ATGCTGGCTGTGGAGCCCATCAATGAACTGCTGCGGGACAAGTGGCGCAAGTTCGGGGCCGTCT
CCTTCTACATCAACGTGGTCTCCTACCTGTGTGCCATGGTCATCTTCACTCTCACCGCCTACTA
CCAGCCGCTGGAGGGCACACCGCCGTACCCTTACCGCACCACGGTGGACTACCTGCGGCTGGCT
GGCGAGGTCATTACGCTCTTCACTGGGGTCCTGTTCTTCTTCACCAACATCAAAGACTTGTTCA
TGAAGAAATGCCCTGGAGTGAATTCTCTCTTCATTGATGGCTCCTTCCAGCTGCTCTACTTCAT
CTACTCTGTCCTGGTGATCGTCTCAGCAGCCCTCTACCTGGCAGGGATCGAGGCCTACCTGGCC
GTGATGGTCTTTGCCCTGGTCCTGGGCTGGATGAATGCCCTTTACTTCACCCGTGGGCTGAAGC
TGACGGGGACCTATAGCATCATGATCCAGAAGATTCTCTTCAAGGACCTTTTCCGATTCCTGCT
CGTCTACTTGCTCTTCATGATCGGCTACGCCTCAGCCCTGGTCTCCCTCCTGAACCCGTGTGCC
AACATGAAGGTGTGCAATGAGGACCAGACCAACTGCACAGTGCCCACTTACCCCTCGTGCCGTG
ACAGCGAGACCTTCAGCACCTTCCTCCTGGACCTGTTTAAGCTGACCATCGGCATGGGCGACCT
GAGATGCTGAGCAGCACCAAGTACCCCGTGGTCTTCATCATCCTGCTGGTGACCTACATCATCC
TCACCTTTGTGCTGCTCCTCAACATGCTCATTGCCCTCATGGGCGAGACAGTGGGCCAGGTCTC
CAAGGAGAGCAAGCACATCTGGAAGCTGCAGTGGGCCACCACCATCCTGGACATTGAGCGCTCC
TTCCCCGTATTCCTGAGGAAGGCCTTCCGCTCTGGGGAGATGGTCACCGTGGGCAAGAGCTCGG
ACGGCACTCCTGACCGCAGGTGGTGCTTCAGGGTGAATGAGGTGAACTGGTCTCACTGGAACCA
GAACTTGGGCATCATCAACGAGGACCCGGGCAAGAATGAGACCTACCAGTATTATGGCTTCTCG
CATACCGTGGGCCGCCTCCGCAGGGATCGCTGGTCCTCGGTGGTACCCCGCGTGGTGGAACTGA
ACAAGAACTCGAACCCGGACGAGGTGGTGGTGCCTCTGGACAGCATGGGGAACCCCCGCTGCGA
TGGCCACCAGCAGGGTTACCCCCGCAAGTGGAGGACTGATGACGCCCCGCTCTAGGGACTGCAG
CCCAGCCCCAGCTTCTCTGCCCACTCATTTCTAGTCCAGCCGCATTTCAGCAGTGCCTTCTGGG
GTGTCCCCCCACACCCTGCTTTGGCCCCAGAGGCGAGGGACCAGTGGAGGTGCCAGGGAGGCCC
CAGGACCCTGTGGTCCCCTGGCTCTGCCTCCCCACCCTGGGGTGGGGGCTCCCGGCCACCTGTC
TTGCTCCTATGGAGTCACATAAGCCA

FIG. 2

MADSSEGPRAGPGEVAELPGDESGTPGGEAFPLSSLANLFEGED
GSLSPSPADASRPAGPGDGRPNLRMKFQGAFRKGVPNPIDLLESTLYESSVVPGPKKA
PMDSLFDYGTYRHHSSDNKRWRKKIIEKQPQSPKAPAPQPPPILKVFNRPILFDIVSR
GSTADLDGLLPFLLTHKKRLTDEEFREPSTGKTCLPKALLNLSNGRNDTIPVLLDIAE
RTGNMREFINSPFRDIYYRGQTALHIAIERRCKHYVELLVAQGADVHAQARGRFFQPK
DEGGYFYFGELPLSLAACTNQPHIVNYLTENPHKKADMRRQDSRGNTVLHALVAIADN
TRENTKFVTKMYDLLLLKCARLFPDSNLEAVLNNDGLSPLMMAAKTGKIGVFQHIIRR
EVTDEDTRHLSRKFKDWAYGPVYSSLYDLSSLDTCGEEASVLEILVYNSKIENRHEML
AVEPINELLRDKWRKFGAVSFYINVVSYLCAMVIFTLTAYYQPLEGTPPYPYRTTVDY
LRLAGEVITLFTGVLFFFTNIKDLFMKKCPGVNSLFIDGSFQLLYFIYSVLVIVSAAL
YLAGIEAYLAVMVFALVLGWMNALYFTRGLKLTGTYSIMIQKILFKDLFRFLLVYLLF
MIGYASALVSLLNPCANMKVCNEDQTNCTVPTYPSCRDSETFSTFLLDLFKLTIGMGD
LEMLSSTKYPVVFIILLVTYIILTFVLLLNMLIALMGETVGQVSKESKHIWKLQWATT
ILDIERSFPVFLRKAFRSGEMVTVGKSSDGTPDRRWCFRVNEVNWSHWNQNLGIINED
PGKNETYQYYGFSHTVGRLRRDRWSSVVPRVVELNKNSNPDEVVVPLDSMGNPRCDGH
QQGYPRKWRTDDAPL

FIG. 3

AGCTATGACCATGATTACGCCAAGCTATTTAGGTGACACTATAGAATACTCAAGCTATGCATCC
AACGCGTTGGAGCTCTCCCATATGGTCGACCTGCAGCGGCCGCGAATTCACTAGTGATTATGGC
GGATTCCAGCGAAGGCCCCCGCGCGGGGCCCGGGGAGGTGGCTGAGCTCCCCGGGGATGAGAGT
GGCACCCCAGGTGGGGAGGCTTTTCCTCTCTCCTCCCTGGCCAATCTGTTTGAGGGGGAGGATG
GCTCCCTTTCGCCCTCACCGGCTGATGCCAGTCGCCCTGCTGGCCCAGGCGATGGGCGACCAAA
TCTGCGCATGAAGTTCCAGGGCGCCTTCCGCAAGGGGGTGCCCAACCCCATCGATCTGCTGGAG
TCCACCCTATATGAGTCCTCGGTGGTGCCTGGGCCCAAGAAAGCACCCATGGACTCACTGTTTG
ACTACGGCACCTATCGTCACCACTCCAGTGACAACAAGAGGTGGAGGAAGAAGATCATAGAGAA
GCAGCCGCAGAGCCCCAAAGCCCCTGCCCCTCAGCCGCCCCCCATCCTCAAAGTCTTCAACCGG
CCTATCCTCTTTGACATCGTGTCCCGGGGCTCCACTGCTGACCTGGACGGGCTGCTCCCATTCT
TGCTGACCCACAAGAAACGCCTAACTGATGAGGAGTTTCGAGAGCCATCTACGGGGAAGACCTG
CCTGCCCAAGGCCTTGCTGAACCTGAGCAATGGCCGCAACGACACCATCCCTGTGCTGCTGGAC
ATCGCGGAGCGCACCGGCAACATGCGGGAGTTCATTAACTCGCCCTTCCGTGACATCTACTATC
GAGGTCAGACAGCCCTGCACATCGTCATTGAGCGTCGCTGCAAACACTACGTGGAACTTCTCGT
GGCCCAGGGAGCTGATGTCCACGCCCAGGCCCGTGGGCGCTTCTTCCAGCCCAAGGATGAGGGG
GGCTACTTCTACTTTGGGGAGCTGCCCCTGTCGCTGGCTGCCTGCACCAACCAGCCCCACATTG
TCAACTACCTGACGGAGAACCCCCACAAGAAGGCGGACATGCGGCGCCAGGACTCGCGAGGCAA
CACAGTGCTGCATGCGCTGGTGGCCATTGCTGACAACACCCGTGAGAACACCAAGTTTGTTACC
AAGATGTACGACCTGCTGCTGCTCAAGTGTGCCCGCCTCTTCCCCGACAGCAACCTGGAGGCCG
TGCTCAACAACGACGGCCTCTCGCCCCTCATGATGGCTGCCAAGACGGGCAAGATTGGGATCTT
TCAGCACATCATCCGGCGGGAGGTGACGGATGAGGACACACGGCACCTGTCCCGCAAGTTCAAG
GACTGGGCCTATGGGCCAGTGTATTCCTCGCTTTATGACCTCTCCTCCCTGGACACGTGTGGGG
AAGAGGCCTCCGTGCTGGAGATCCTGGTGTACAACAGCAAGATTGAGAACCGCCACGAGATGCT
GGCTGTGGAGCCCATCAATGAACTGCTGCGGGACAAGTGGCGCAAGTTCGGGGCCGTCTCCTTC
TACATCAACGTGGTCTCCTACCTGTGTGCCATGGTCATCTTCACTCTCACCGCCTACTACCAGC
CGCTGGAGGGCACACCGCCGTACCCTTACCGCACCACGGTGGACTACCTGCGGCTGGCTGGCGA
GGTCATTACGCTCTTCACTGGGGTCCTGTTCTTCTTCACCAACATCAAAGACTTGTTCATGAAG
AAATGCCCTGGAGTGAATTCTCTCTTCATTGATGGCTCCTTCCAGCTGCTCTACTTCATCTACT
CTGTCCTGGTGATCGTCTCAGCAGCCCTCTACCTGGCAGGGATCGAGGCCTACCTGGCCGTGAT
GGTCTTTGCCCTGGTCCTGGGCTGGATGAATGCCCTTTACTTCACCCGTGGGCTGAAGCTGACG
GGGACCTATAGCATCATGATCCAGAAGATTCTCTTCAAGGACCTTTTCCGATTCCTGCTCGTCT
ACTTGCTCTTCATGATCGGCTACGCTTCAGCCCTGGTCTCCCTCCTGAACCCGTGTGCCAACAT
GAAGGTGTGCAATGAGGACCAGACCAACTGCACAGTGCCCACTTACCCCTCGTGCCGTGACAGC
GAGACCTTCAGCACCTTCCTCCTGGACCTGTTTAAGCTGACCATTGGCATGGGCGACCTGGAGA
TGCTGAGCAGCACCAAGTACCCCGTGGTCTTCATCATCCTGCTGGTGACCTACATCATCCTCAC
CTTTGTGCTGCTCCTCAACATGCTCATTGCCCTCATGGGCGAGACAGTGGGCCAGGTCTCCAAG
GAGAGCAAGCACATCTGGAAGCTGCAGTGGGCCACCACCATCCTGGACATTGAGCGCTCCTTCC
CCGTATTCCTGAGGAAGGCCTTCCGCTCTGGGGAGATGGTCACCGTGGGCAAGAGCTCGGACGG
CACTCCTGACCGCAGGTGGTGCTTCAGGGTGGATGAGGTGAACTGGTCTCACTGGAACCAGAAC
TTGGGCATCATCAACGAGGACCCGGGCAAGAATGAGACCTACCAGTATTATGGCTTCTCGCATA
CCGTGGGCCGCCTCCGCAGGGATCGCTGGTCCTCGGTGGTACCCCGCGTGGTGGAACTGAACAA
GAACTCGAACCCGGACGAGGTGGTGGTGCCTCTGGACAGCATGGGGAACCCCCGCTGCGATGGC
CACCAGCAGGGTTACCCCCGCAAGTGGAGGACTGATGACGCCCCGCTCTAGGGACTGCAGCCCA
GCCCCAGCTTCTCTGCCCACTCATTTCTAGTCCAGCCGCATTTCAGCAGTGCCTTCTGGGGTGT
CCCCCCACACCCTGCTTTGGCCCCAGAGGCGAGGGACCAGTGGAGGTGCCAGGGAGGCCCCAGG
ACCCTGTGGTCCCCTGGCTCTGCCTCCCCACCCTGGGGTGGGGGCTCCCGGCCACCTGTCTTGC
TCCTATGGAATCACTAGTGAATTCCCGCGGCCGCCATGGCGGCCGGGAGCATGCGACGTCGGGC
CCAATTCGCCCTATAGTGAGTCGTATTACAATTCACTGGCCGTCGTTTTACAACGTCGTGACTG
GGAAAACCCTGCGTTACCCAACTTAATCGCCTTGCAGCACATCC

FIG. 4

MADSSEGPRAGPGEVAELPGDESGTPGGEAFPLSSLANL
FEGEDGSLSPSPADASRPAGPGDGRPNLRMKFQGAFRKGVPNPIDLLESTLYESSVVPGPKKAP
MDSLFDYGTYRHHSSDNKRWRKKIIEKQPQSPKAPAPQPPPILKVFNRPILFDIVSRGSTADLD
GLLPFLLTHKKRLTDEEFREPSTGKTCLPKALLNLSNGRNDTIPVLLDIAERTGNMREFINSPF
RDIYYRGQTALHIVIERRCKHYVELLVAQGADVHAQARGRFFQPKDEGGYFYFGELPLSLAACT
NQPHIVNYLTENPHKKADMRRQDSRGNTVLHALVAIADNTRENTKFVTKMYDLLLLKCARLFPD
SNLEAVLNNDGLSPLMMAAKTGKIGIFQHIIRREVTDEDTRHLSRKFKDWAYGPVYSSLYDLSS
LDTCGEEASVLEILVYNSKIENRHEMLAVEPINELLRDKWRKFGAVSFYINVVSYLCAMVIFTL
TAYYQPLEGTPPYPYRTTVDYLRLAGEVITLFTGVLFFFTNIKDLFMKKCPGVNSLFIDGSFQL
LYFIYSVLVIVSAALYLAGIEAYLAVMVFALVLGWMNALYFTRGLKLTGTYSIMIQKILFKDLF
RFLLVYLLFMIGYASALVSLLNPCANMKVCNEDQTNCTVPTYPSCRDSETFSTFLLDLFKLTIG
MGDLEMLSSTKYPVVFIILLVTYIILTFVLLLNMLIALMGETVGQVSKESKHIWKLQWATTILD
IERSFPVFLRKAFRSGEMVTVGKSSDGTPDRRWCFRVDEVNWSHWNQNLGIINEDPGKNETYQY
YGFSHTVGRLRRDRWSSVVPRVVELNKNSNPDEVVVPLDSMGNPRCDGHQQGYPRKWRTDDAPL

FIG. 5A

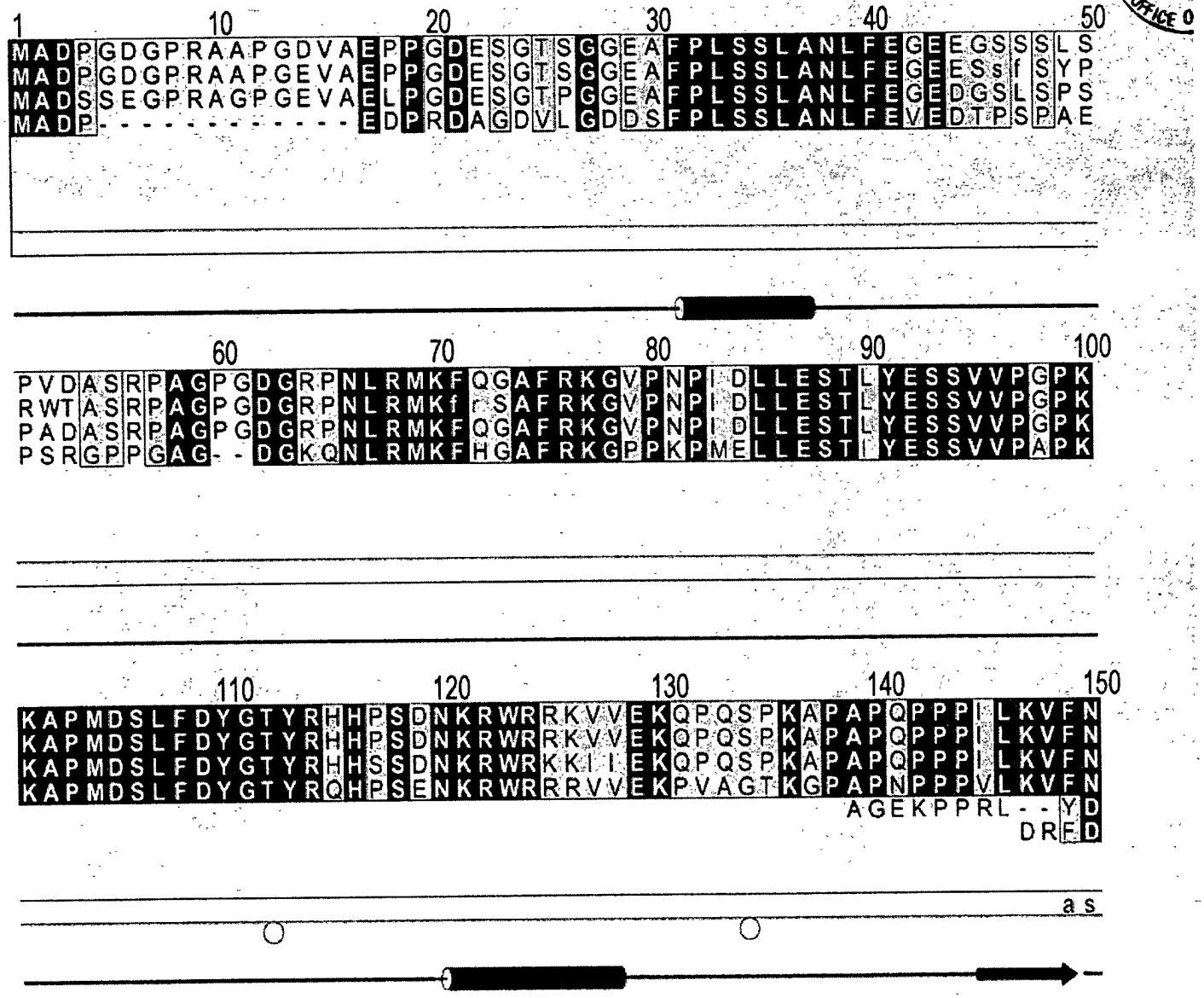
1 10 20 30 40 50
RnVR-MAC MADPGDGPRAAPGDVAEPPGDESGTSGGEAFPLSSLANLFEGEEGSSSLS
MmVR-MAC MADPGDGPRAAPGEVAEPPGDESGTSGGEAFPLSSLANLFEGEESsfSYP
HsVR-MAC MADSSEGPRAGPGEVAELPGDESGTPGGEAFPLSSLANLFEGEDGSLSPS
GgVR-MAC MADP----------EDPRDAGDVLGDDSFPLSSLANLFEVEDTPSPAE
RnVR1
RnVRL-1
CeOSM-9
DmCG4536
Consensus
Regions
Secondary structure
60 70 80 90 100
RnVR-MAC PVDASRPAGPGDGRPNLRMKFQGAFRKGVPNPIDLLESTLYESSVVPGPK
MmVR-MAC RWTASRPAGPGDGRPNLRMKfrSAFRKGVPNPIDLLESTLYESSVVPGPK
HsVR-MAC PADASRPAGPGDGRPNLRMKFQGAFRKGVPNPIDLLESTLYESSVVPGPK
GgVR-MAC PSRGPPGAG--DGKQNLRMKFHGAFRKGPPKPMELLESTIYESSVVPAPK
RnVR1
RnVRL-1
CeOSM-9
DmCG4536
Consensus
Regions
Secondary structure
110 120 130 140 150
RnVR-MAC KAPMDSLFDYGTYRHHPSDNKRWRRKVVEKQPQSPKAPAPQPPPILKVFN
MmVR-MAC KAPMDSLFDYGTYRHHPSDNKRWRRKVVEKQPQSPKAPAPQPPPILKVFN
HsVR-MAC KAPMDSLFDYGTYRHHSSDNKRWRKKIIEKQPQSPKAPAPQPPPILKVFN
GgVR-MAC KAPMDSLFDYGTYRQHPSENKRWRRRVVEKPVAGTKGPAPNPPPVLKVFN
AGEKPPRL--YD
DRFD
RnVR1
RnVRL-1
CeOSM-9
DmCG4536
Consensus
Regions
a s
Secondary structure

FIG. 5B

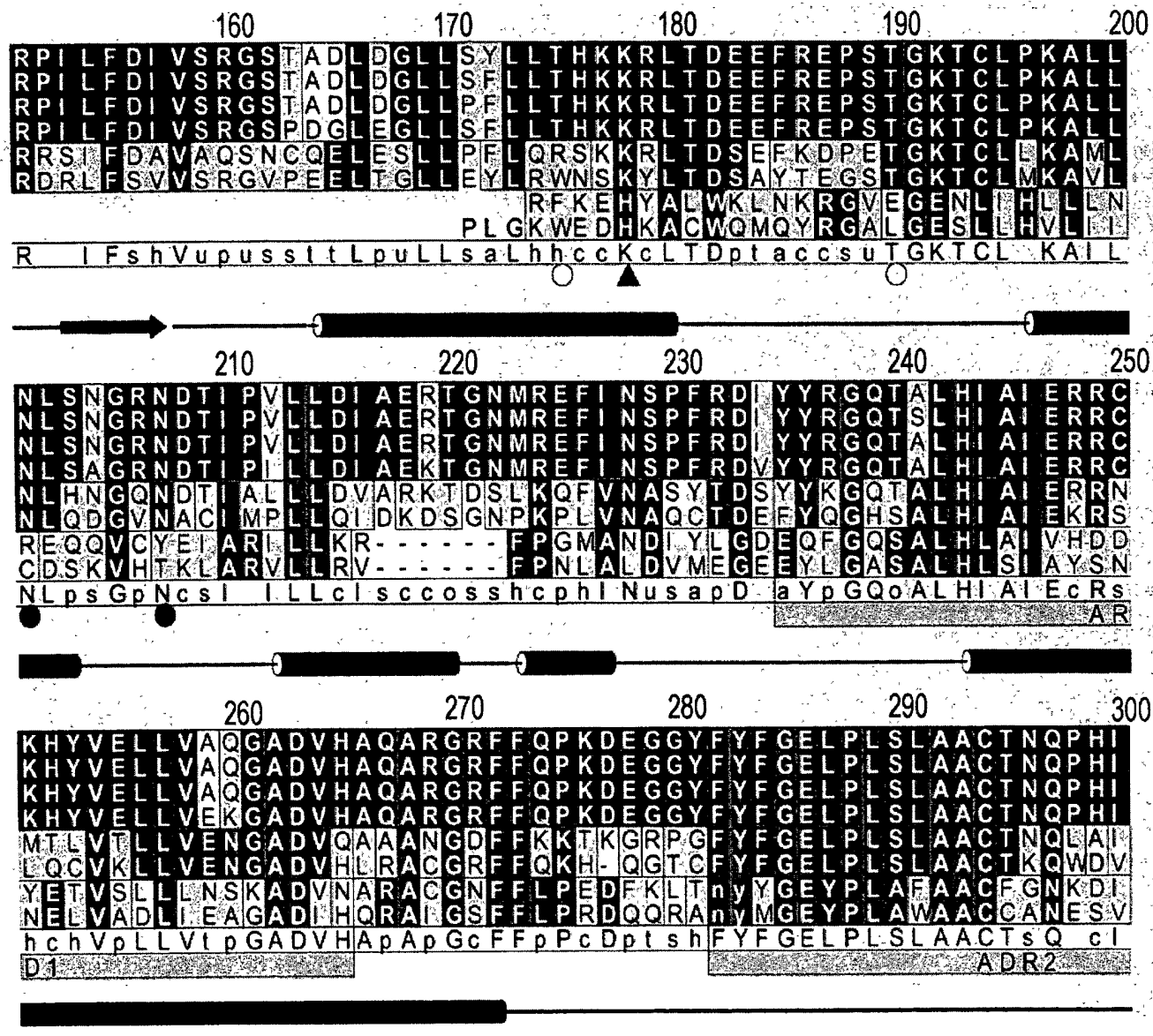
160
170
180
190
200
RnVR-MAC
MmVR-MAC
HsVR-MAC
GgVR-MAC
RnVR1
RnVRL-1
CeOSM-9
DmCG4536
Consensus
Regions
Secondary structure
210
220
230
240
250
RnVR-MAC
MmVR-MAC
HsVR-MAC
GgVR-MAC
RnVR1
RnVRL-1
CeOSM-9
DmCG4536
Consensus
Regions
Secondary structure
260
270
280
290
300
RnVR-MAC
MmVR-MAC
HsVR-MAC
GgVR-MAC
RnVR1
RnVRL-1
CeOSM-9
DmCG4536
Consensus
Regions
D1
ADR2
Secondary structure

FIG. 5C

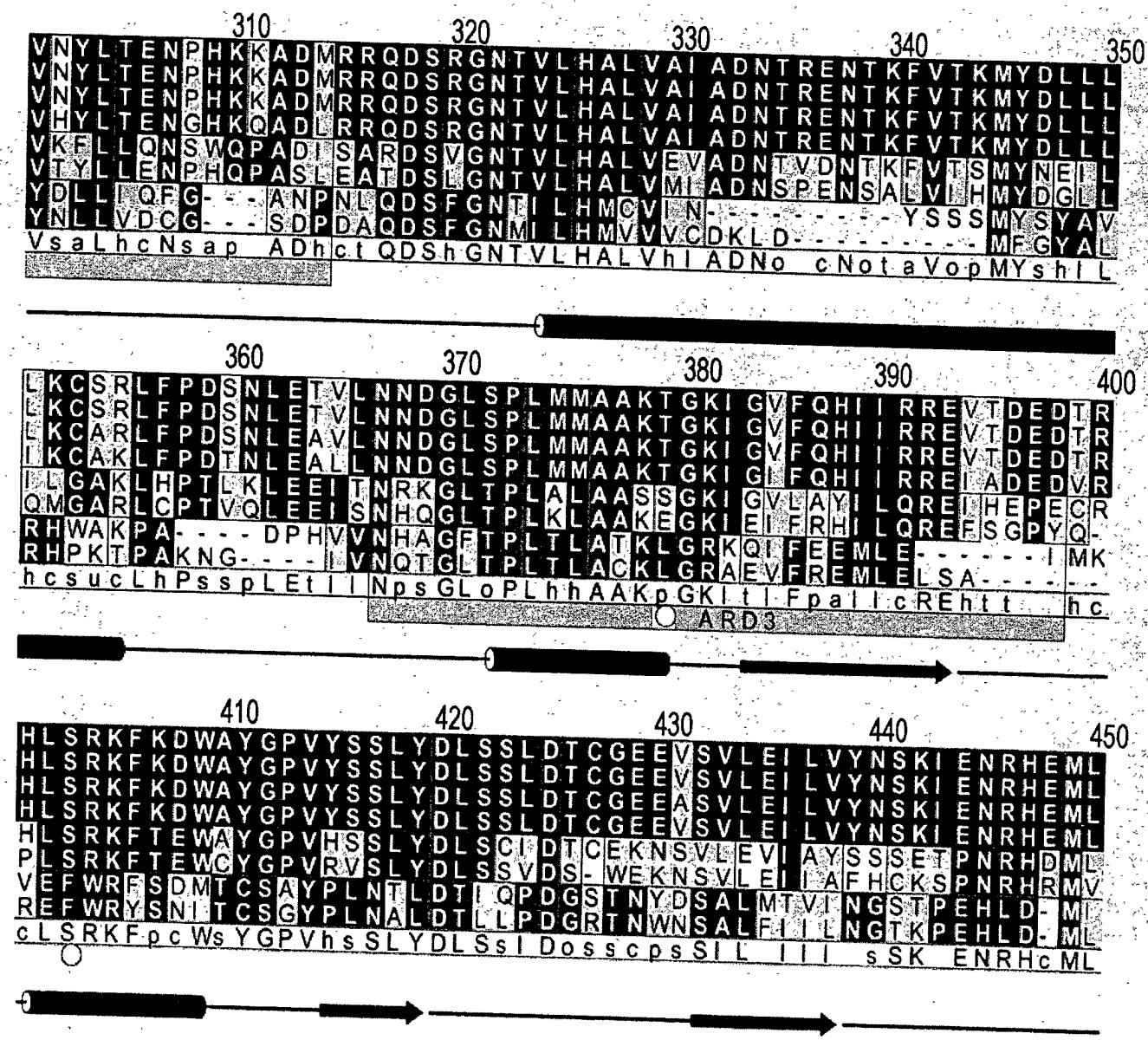
RnVR-MAC
MmVR-MAC
HsVR-MAC
GgVR-MAC
RnVR1
RnVRL-1
CeOSM-9
DmCG4536
Consensus
Regions
Secondary structure
310
320
330
340
350
360
370
380
390
400
410
420
430
440
450
ARD3

FIG. 5D

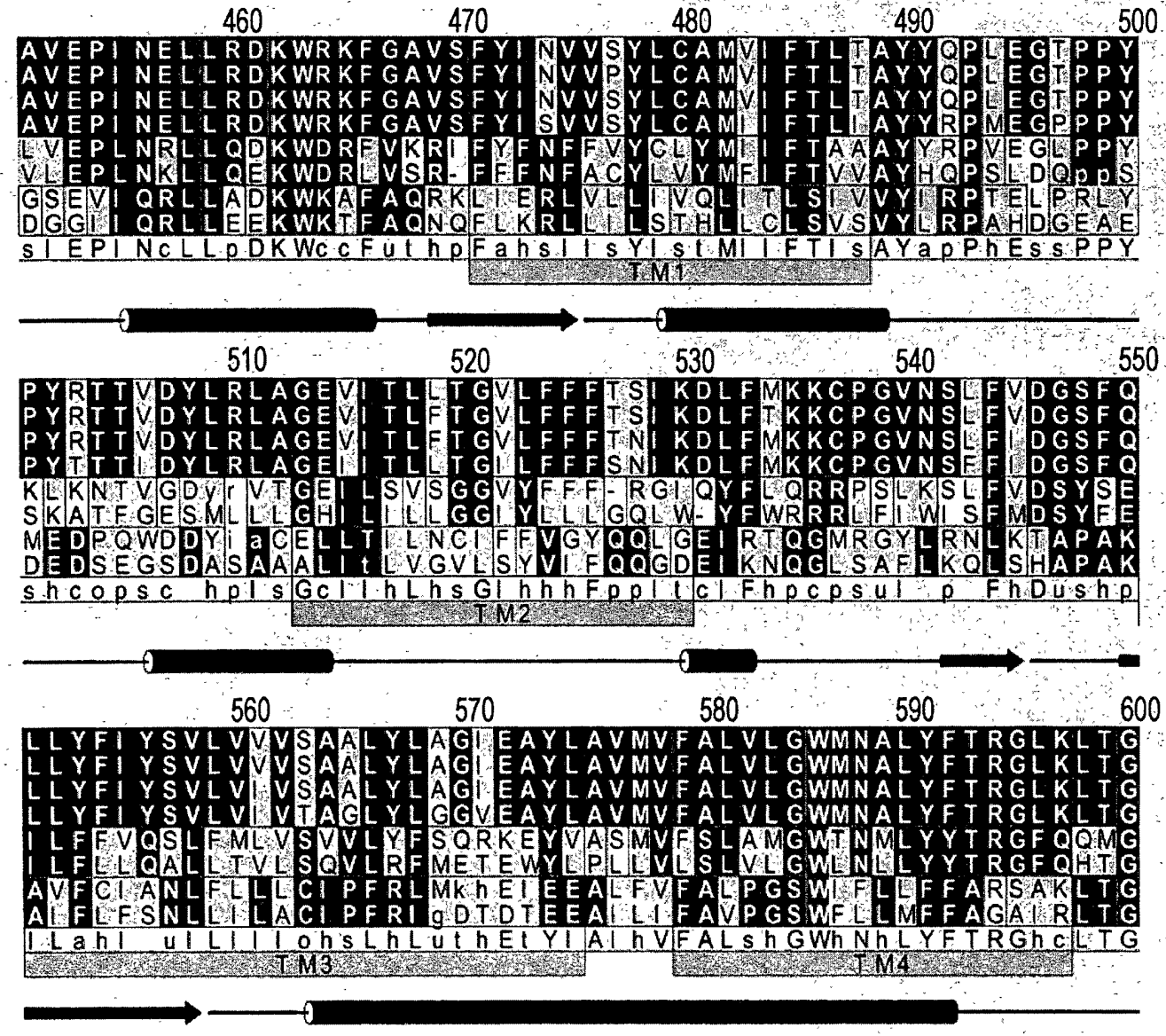
460
470
480
490
500
RnVR-MAC
MmVR-MAC
HsVR-MAC
GgVR-MAC
RnVR1
RnVRL-1
CeOSM-9
DmCG4536
Consensus
Regions
TM1
Secondary structure
510
520
530
540
550
RnVR-MAC
MmVR-MAC
HsVR-MAC
GgVR-MAC
RnVR1
RnVRL-1
CeOSM-9
DmCG4536
Consensus
Regions
TM2
Secondary structure
560
570
580
590
600
RnVR-MAC
MmVR-MAC
HsVR-MAC
GgVR-MAC
RnVR1
RnVRL-1
CeOSM-9
DmCG4536
Consensus
Regions
TM3
TM4
Secondary structure

FIG. 5E

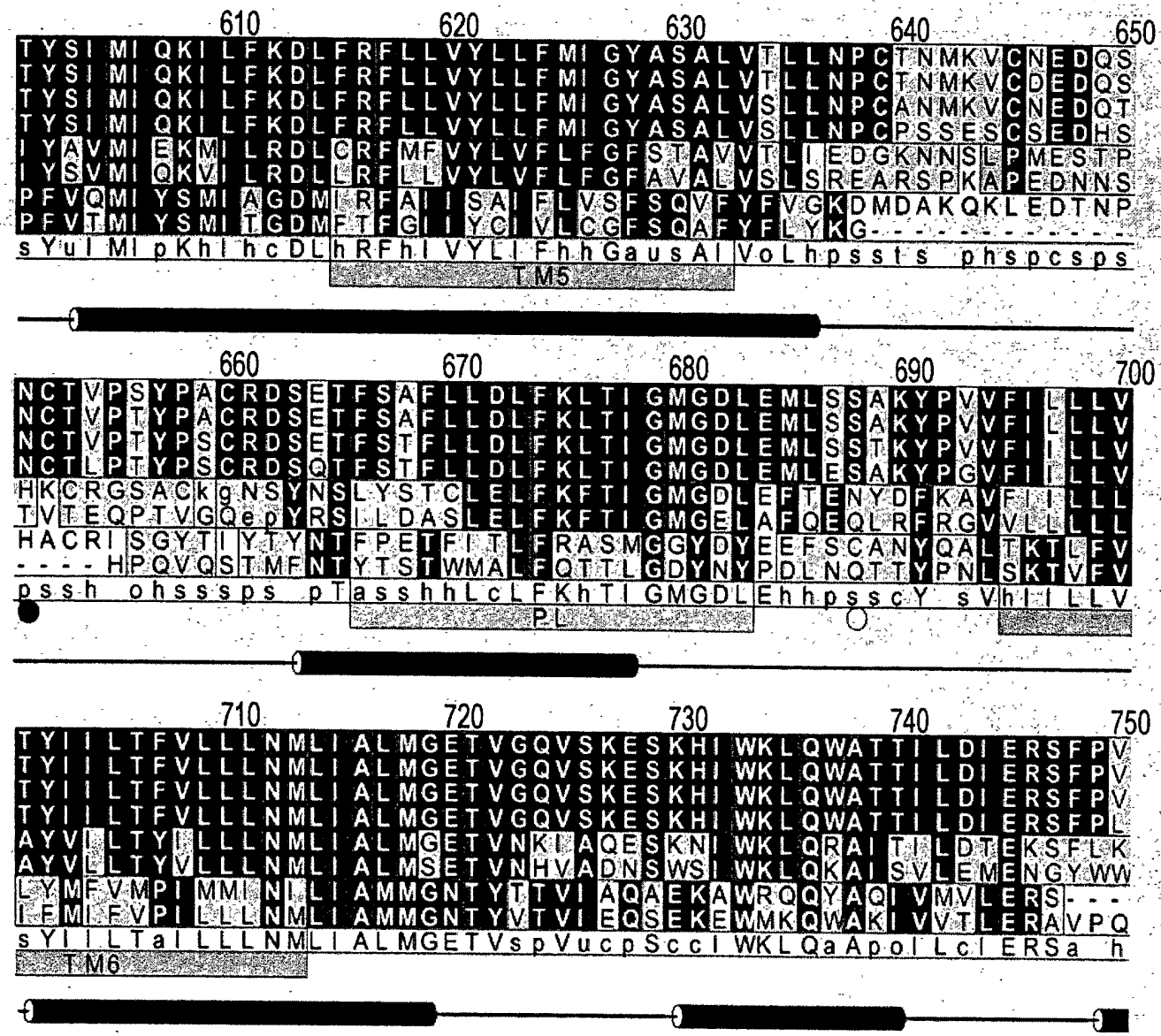
610
620
630
640
650
RnVR-MAC
MmVR-MAC
HsVR-MAC
GgVR-MAC
RnVR1
RnVRL-1
CeOSM-9
DmCG4536
Consensus
Regions
TM5
Secondary structure
660
670
680
690
700
RnVR-MAC
MmVR-MAC
HsVR-MAC
GgVR-MAC
RnVR1
RnVRL-1
CeOSM-9
DmCG4536
Consensus
Regions
PL
Secondary structure
710
720
730
740
750
RnVR-MAC
MmVR-MAC
HsVR-MAC
GgVR-MAC
RnVR1
RnVRL-1
CeOSM-9
DmCG4536
Consensus
Regions
TM6
Secondary structure

FIG. 5F

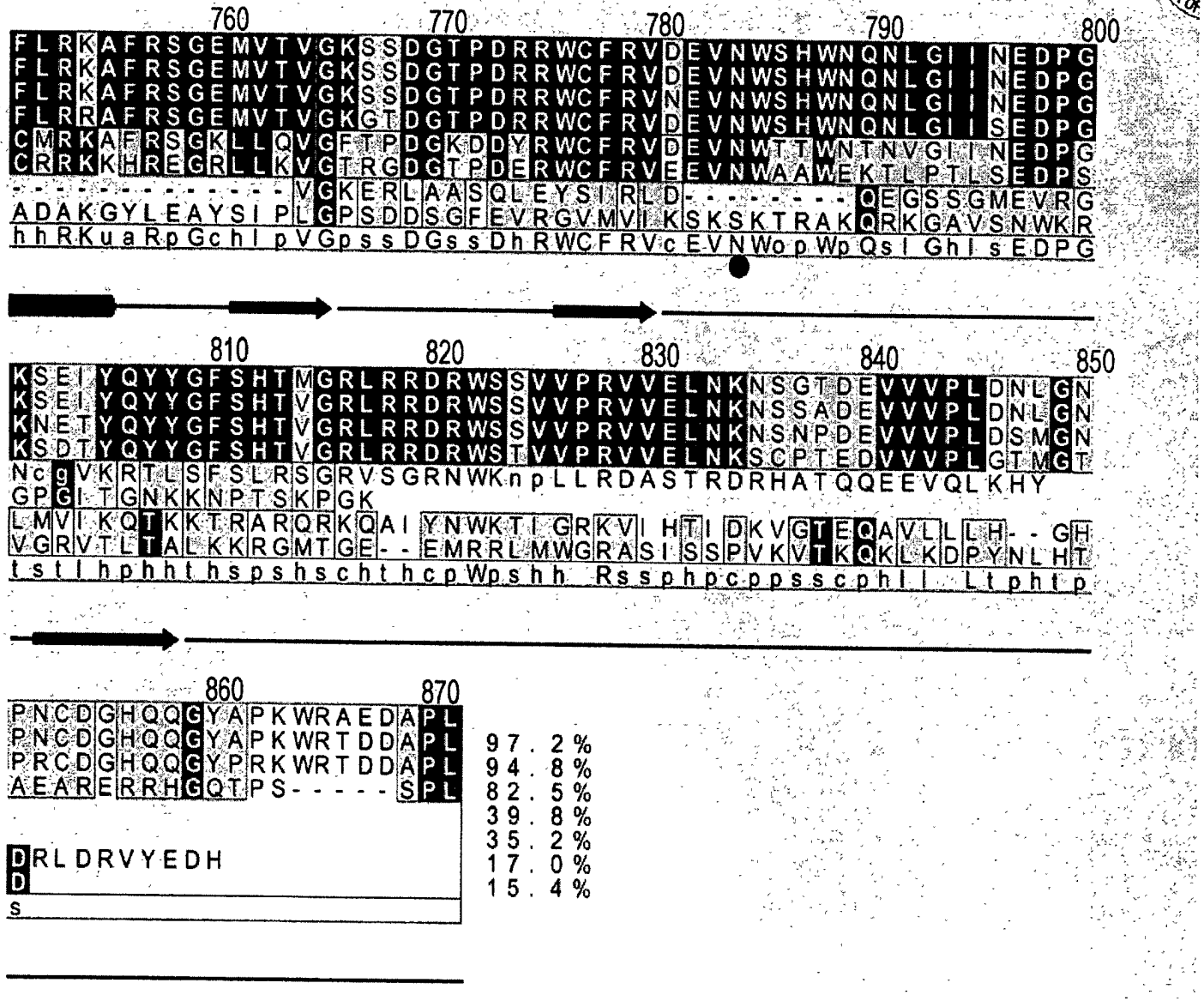
760
770
780
790
800
RnVR-MAC
MmVR-MAC
HsVR-MAC
GgVR-MAC
RnVR1
RnVRL-1
CeOSM-9
DmCG4536
Consensus
Regions
Secondary structure
810
820
830
840
850
RnVR-MAC
MmVR-MAC
HsVR-MAC
GgVR-MAC
RnVR1
RnVRL-1
CeOSM-9
DmCG4536
Consensus
Regions
Secondary structure
860
870
RnVR-MAC
MmVR-MAC
HsVR-MAC
GgVR-MAC
RnVR1
RnVRL-1
CeOSM-9
DmCG4536
Consensus
Regions
Secondary structure
97.2%
94.8%
82.5%
39.8%
35.2%
17.0%
15.4%

FIG. 6A

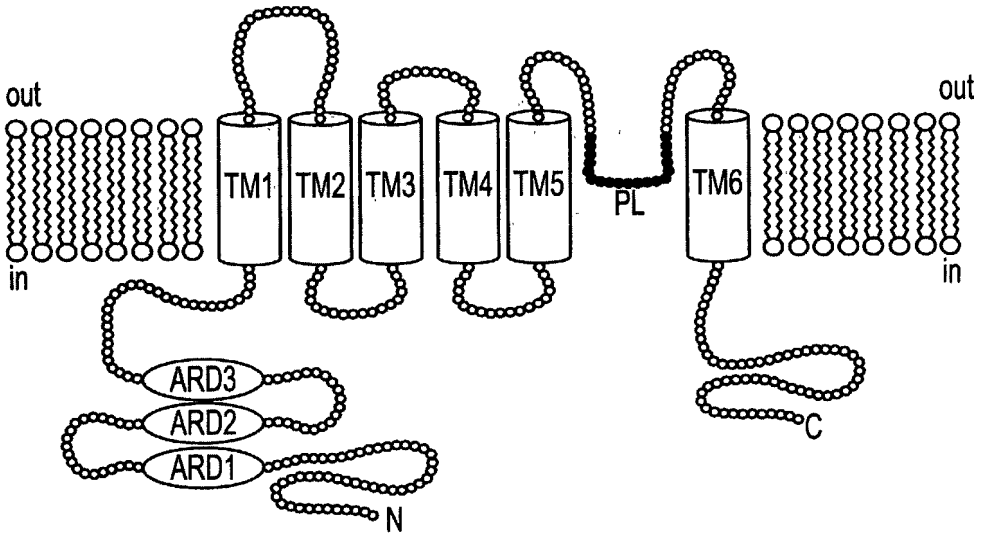

FIG. 6B

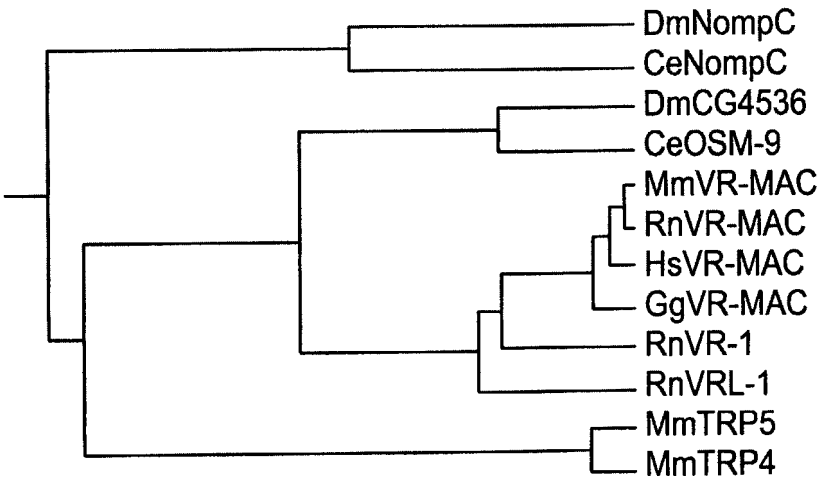

FIG. 7A

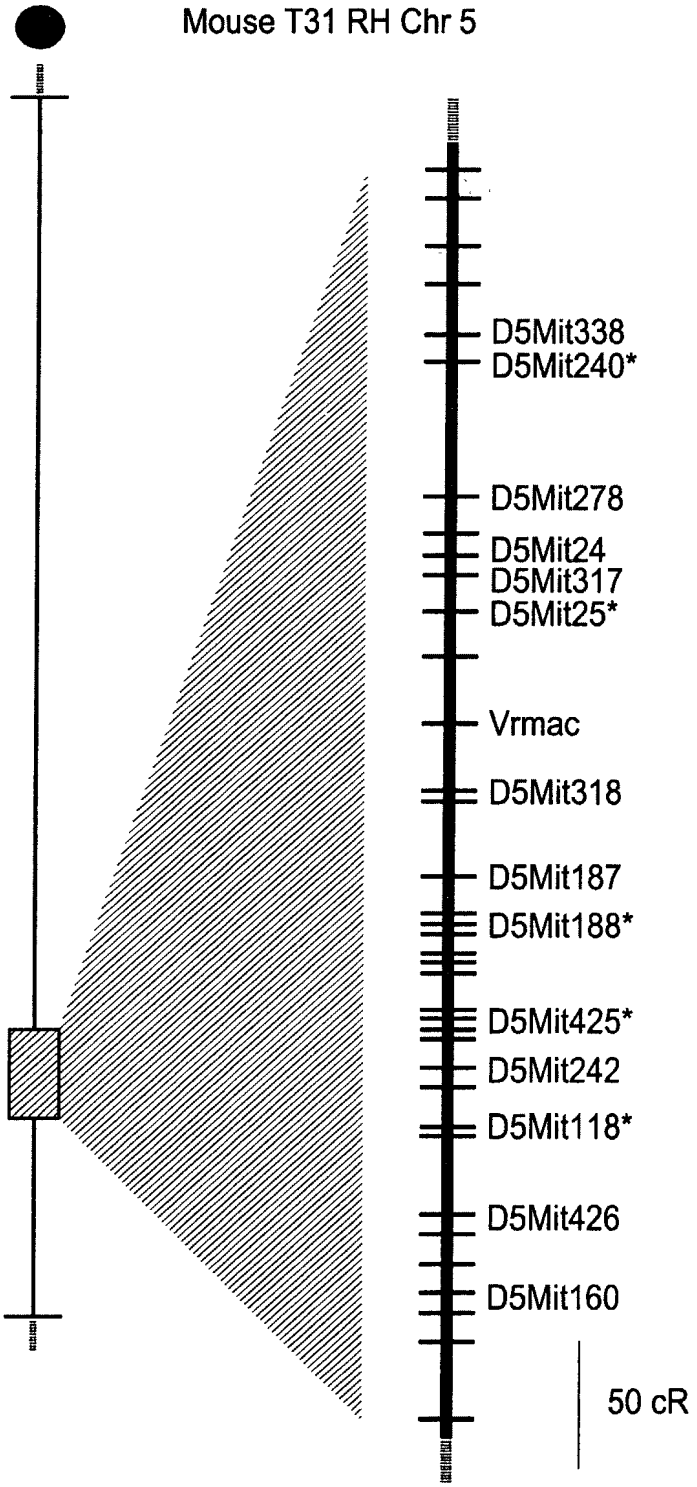

FIG. 7B

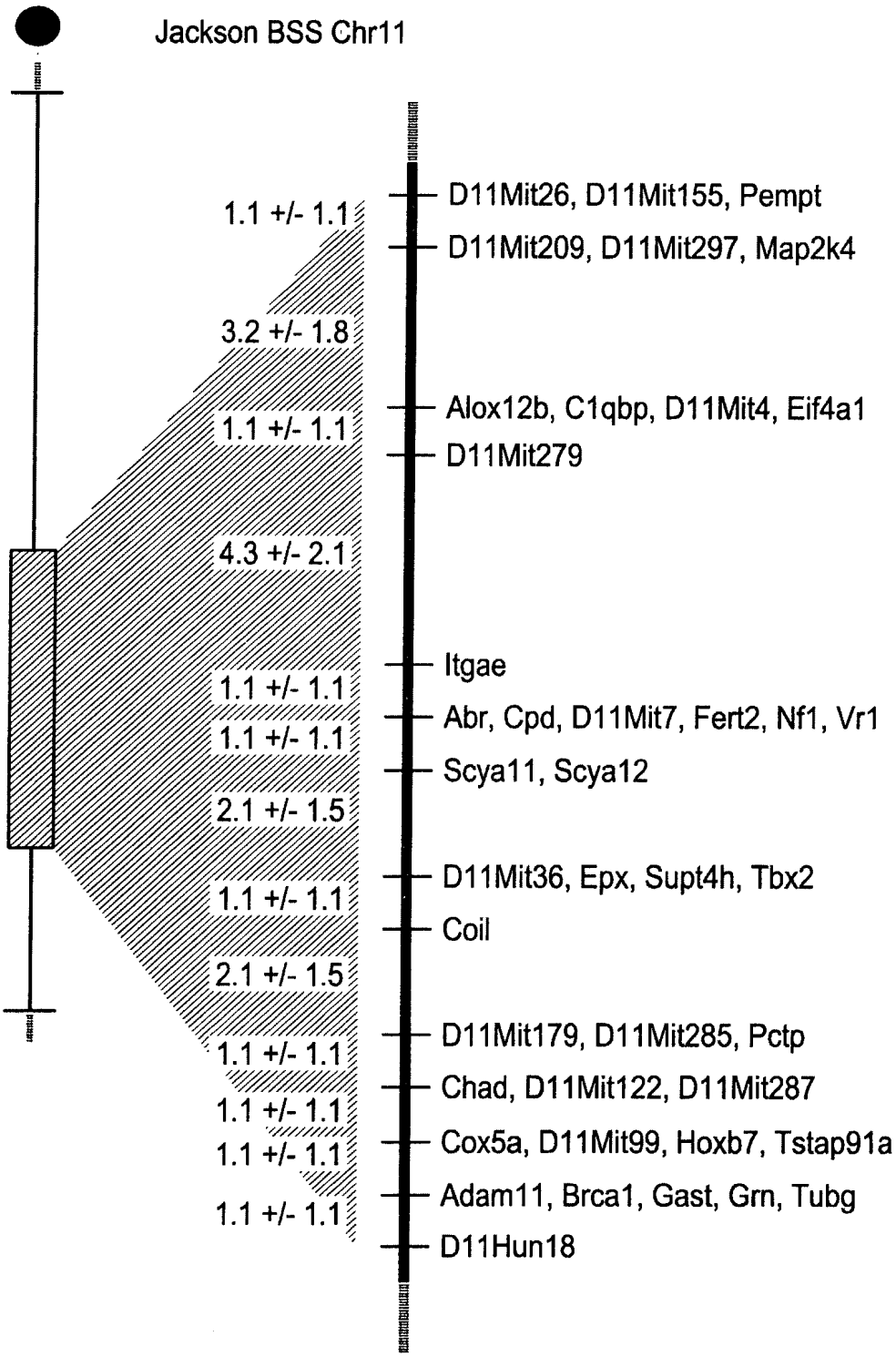

FIG. 8

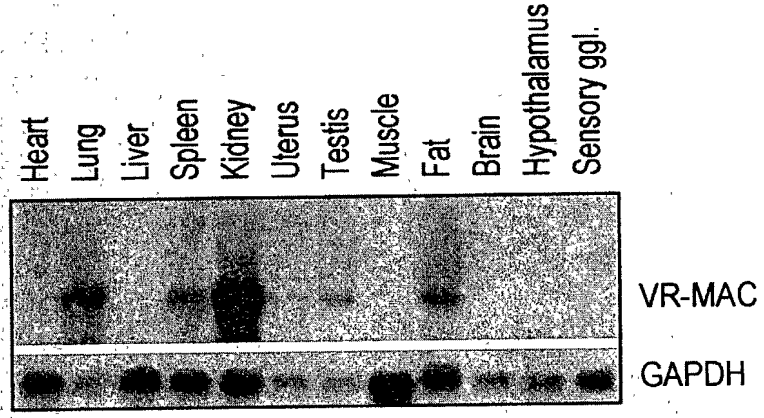

FIG. 9A

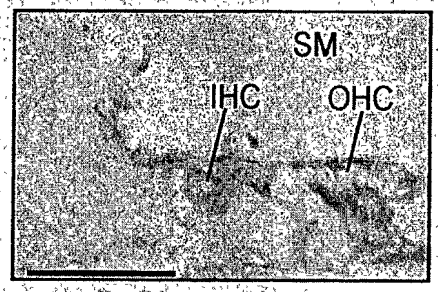

FIG. 9B

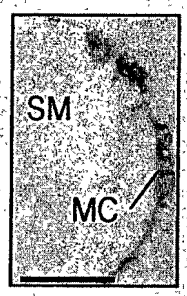

FIG. 9E

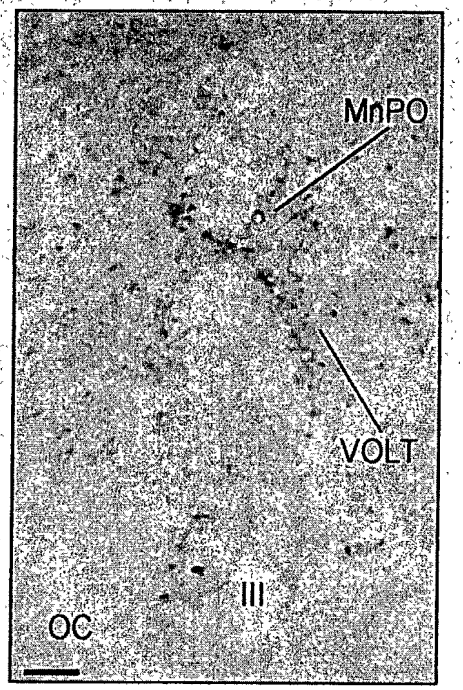

FIG. 9C

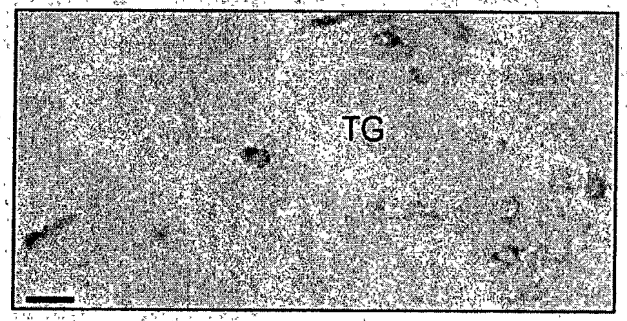

FIG. 9D

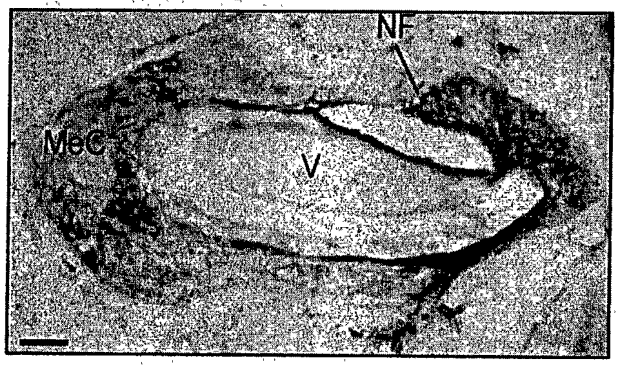

FIG. 9F

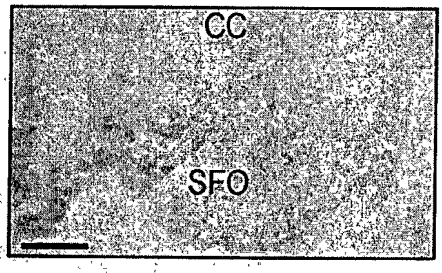

FIG. 9G

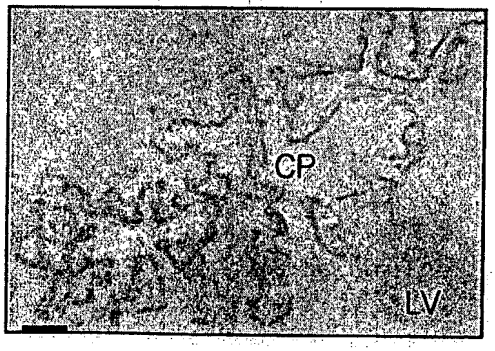

FIG. 9H

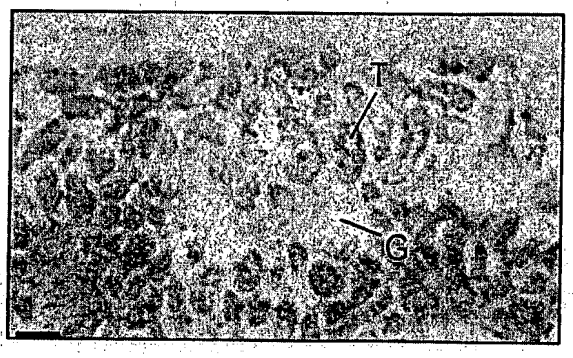

FIG. 10A

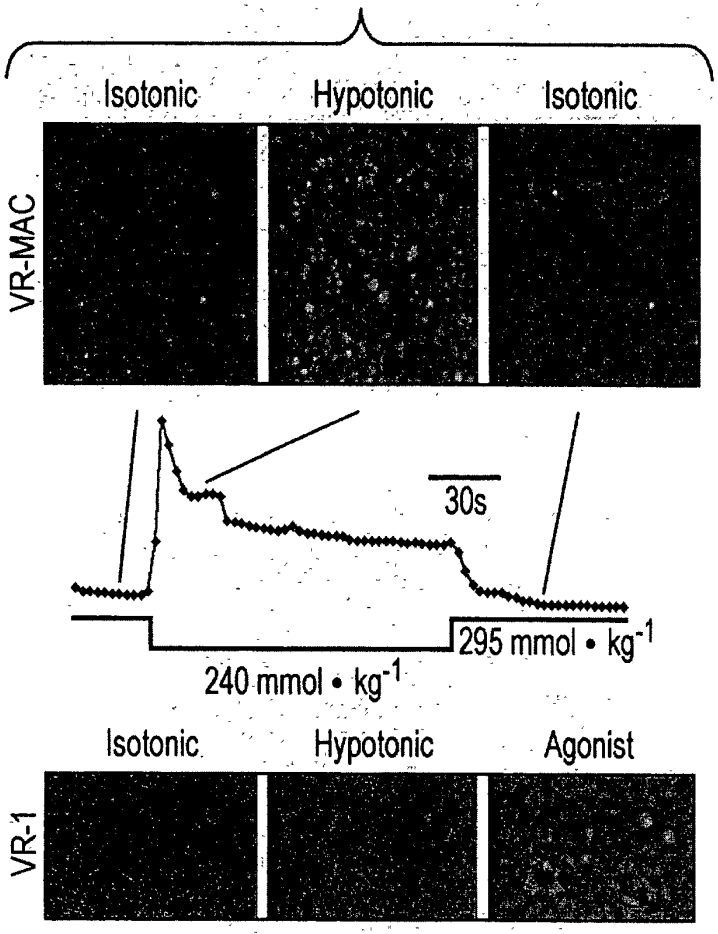

FIG. 10B

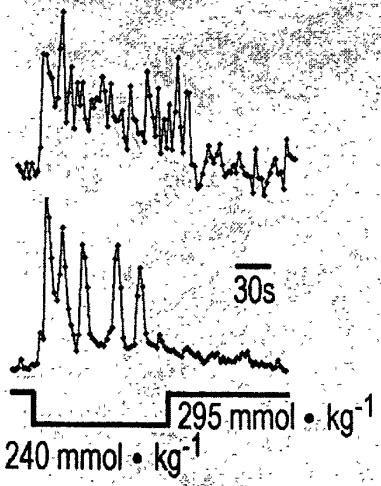

FIG. 10C

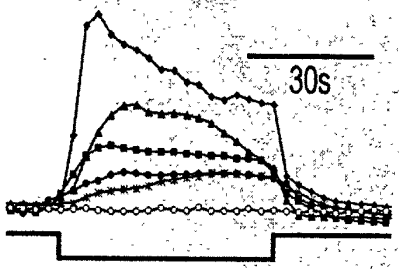

FIG. 10D

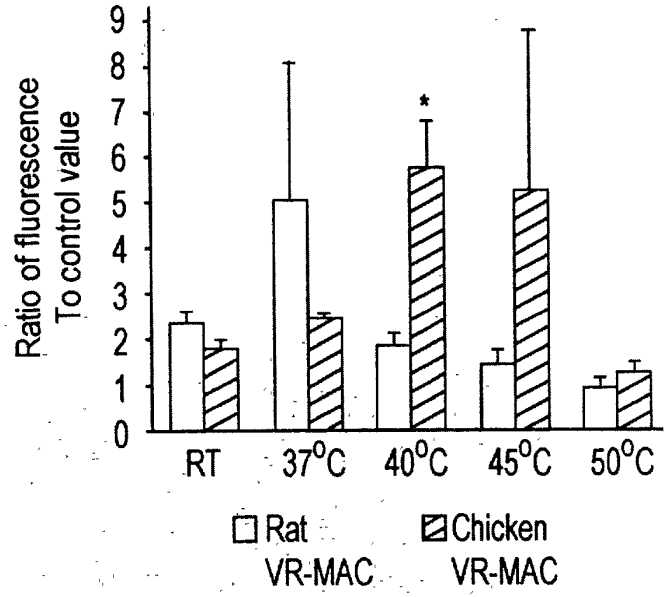

FIG. 10E

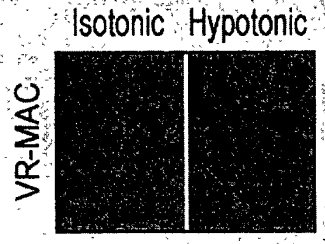

FIG. 10F

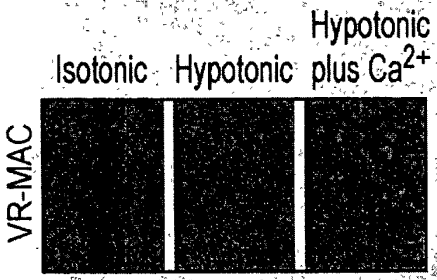

FIG. 11A

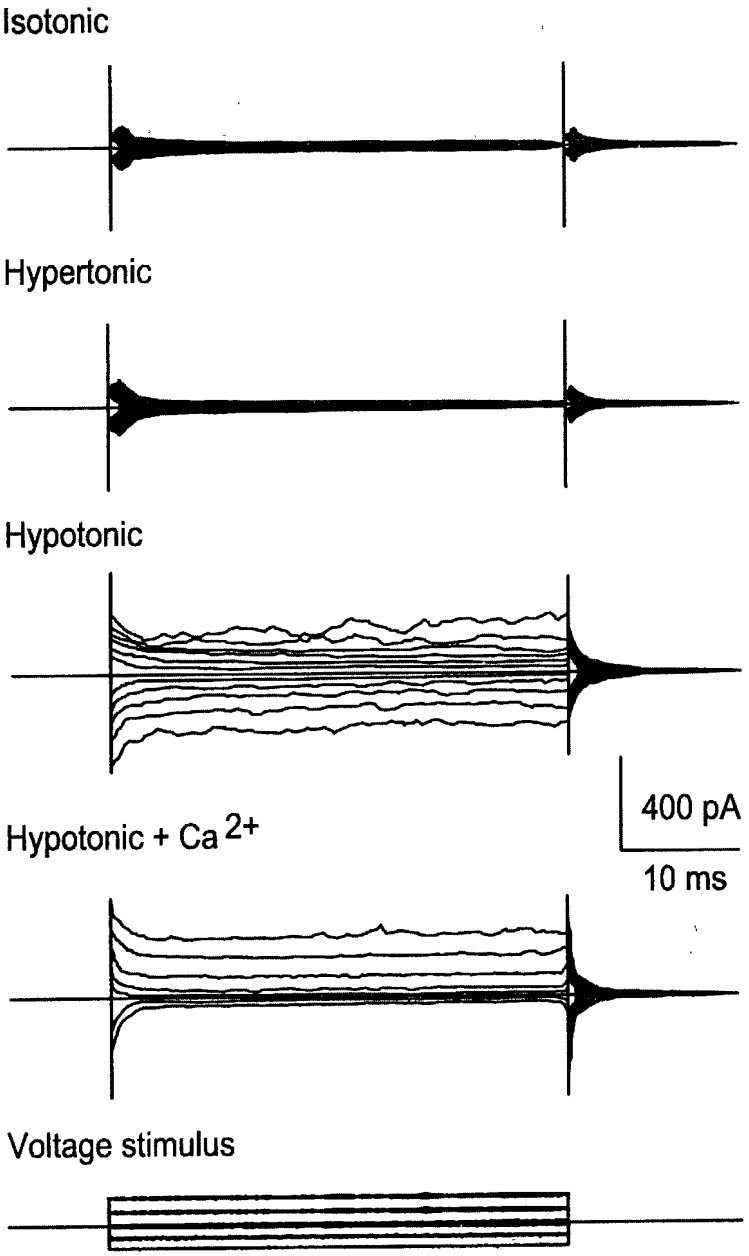

FIG. 11B

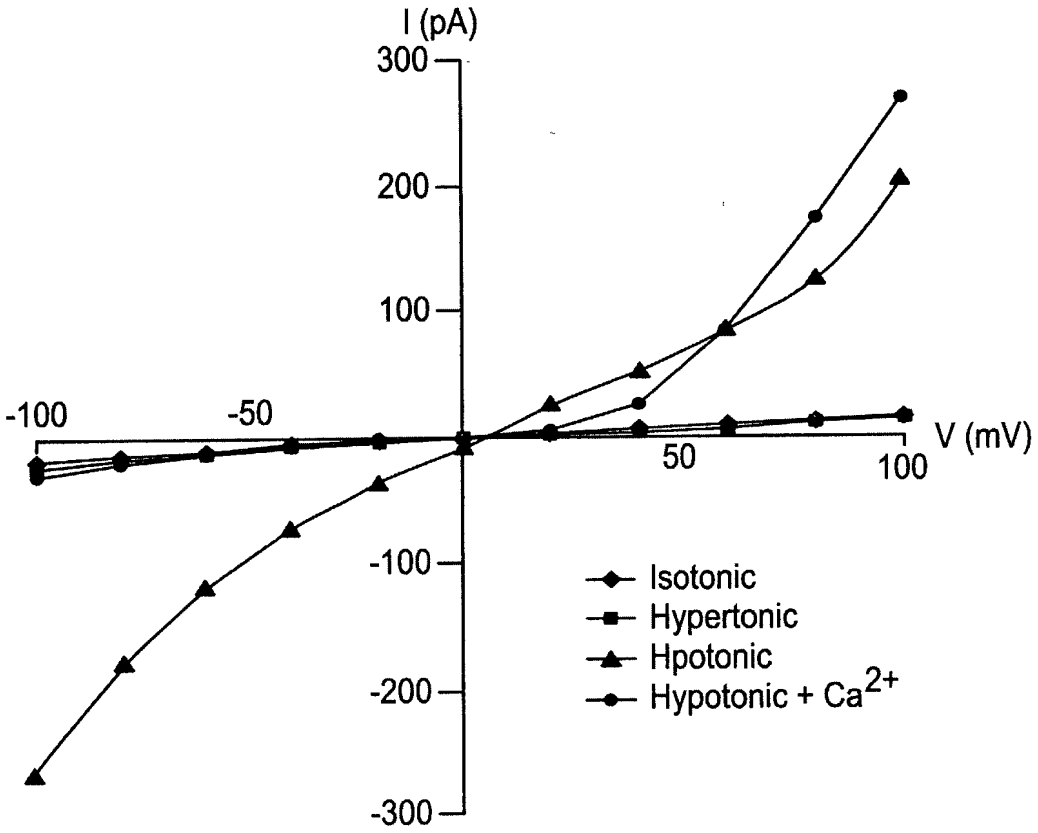

FIG. 11C

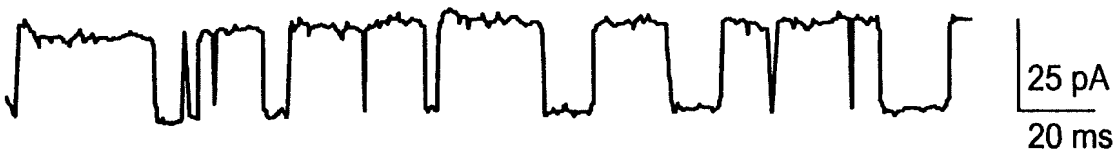

FIG. 12

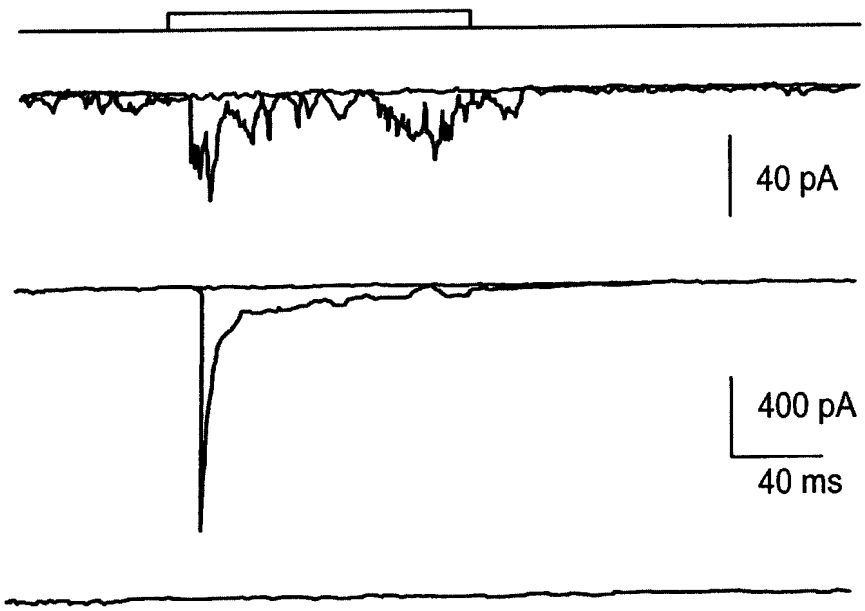

FIG. 13A

FIG. 13B

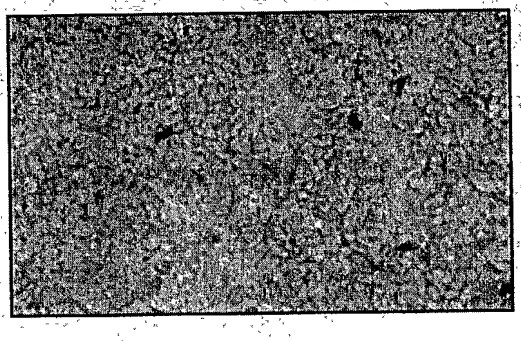

FIG. 13C

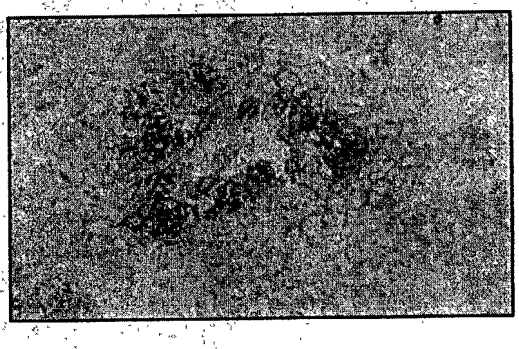

FIG. 13D

FIG. 13E

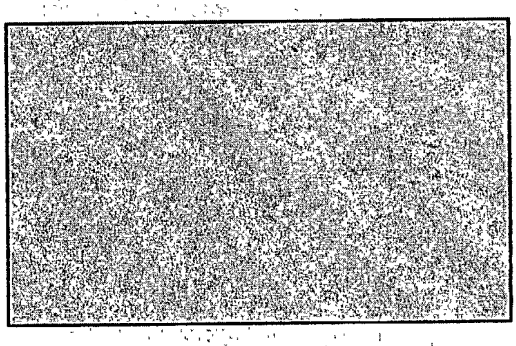

FIG. 13F

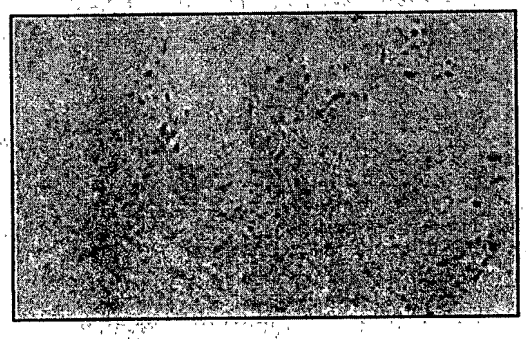

FIG. 13G

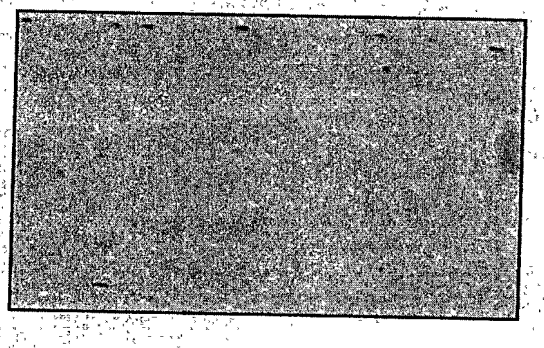

FIG. 13H

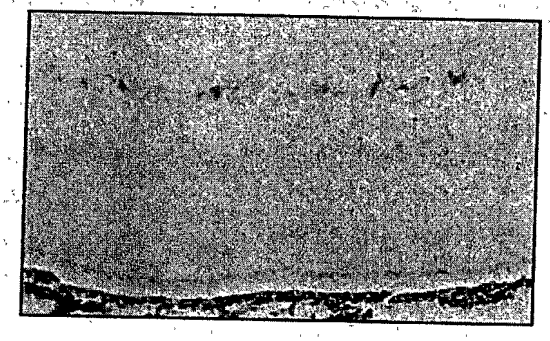

FIG. 13I

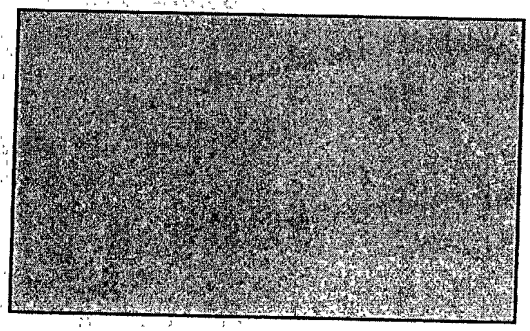

FIG. 13J

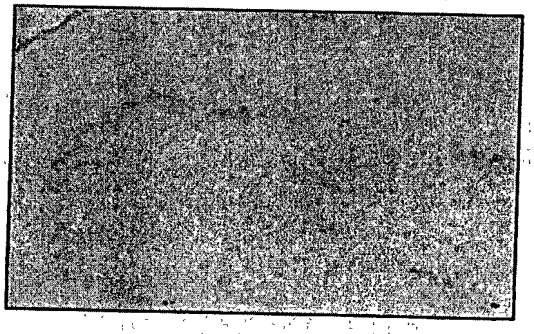

FIG. 14A-1

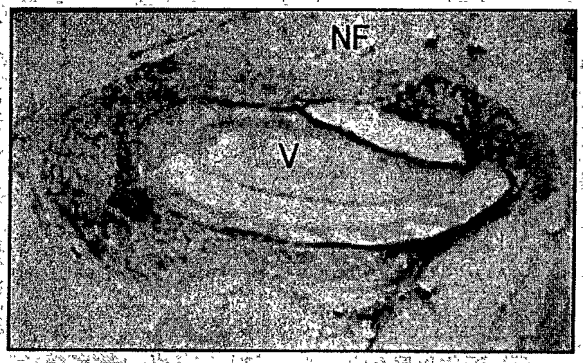

FIG. 14A-2

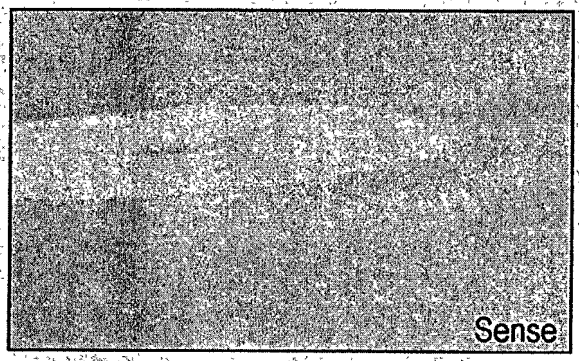

FIG. 14B-1

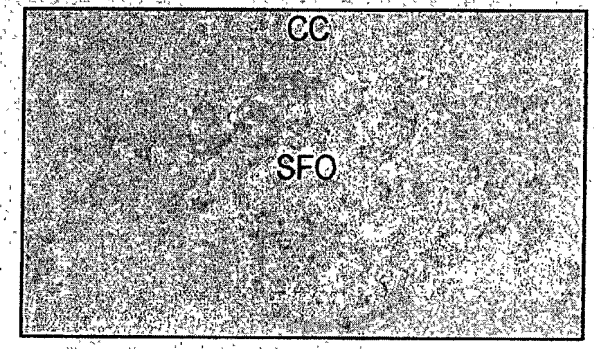

FIG. 14B-2

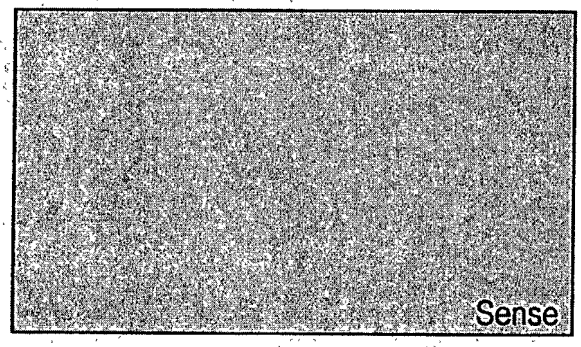

FIG. 14C-1

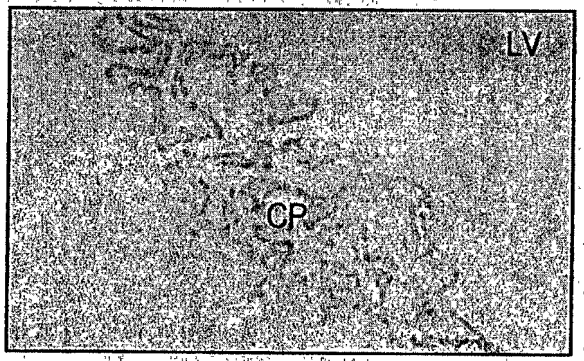

FIG. 14C-2

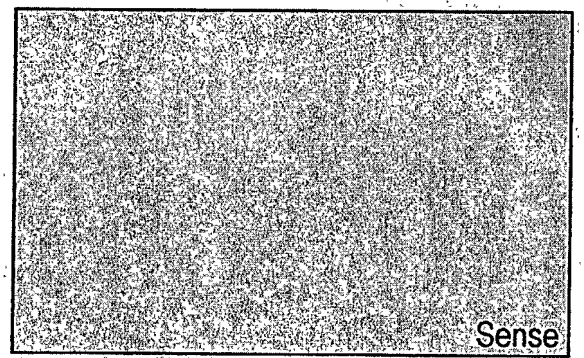

FIG. 14D-1

FIG. 14D-2

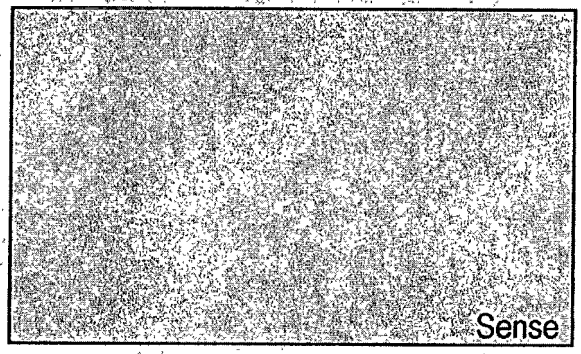

FIG. 14E

FIG. 14F

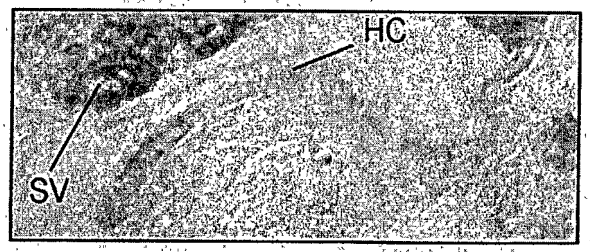

FIG. 15A

Osmotic avoidance/
basic paradigm

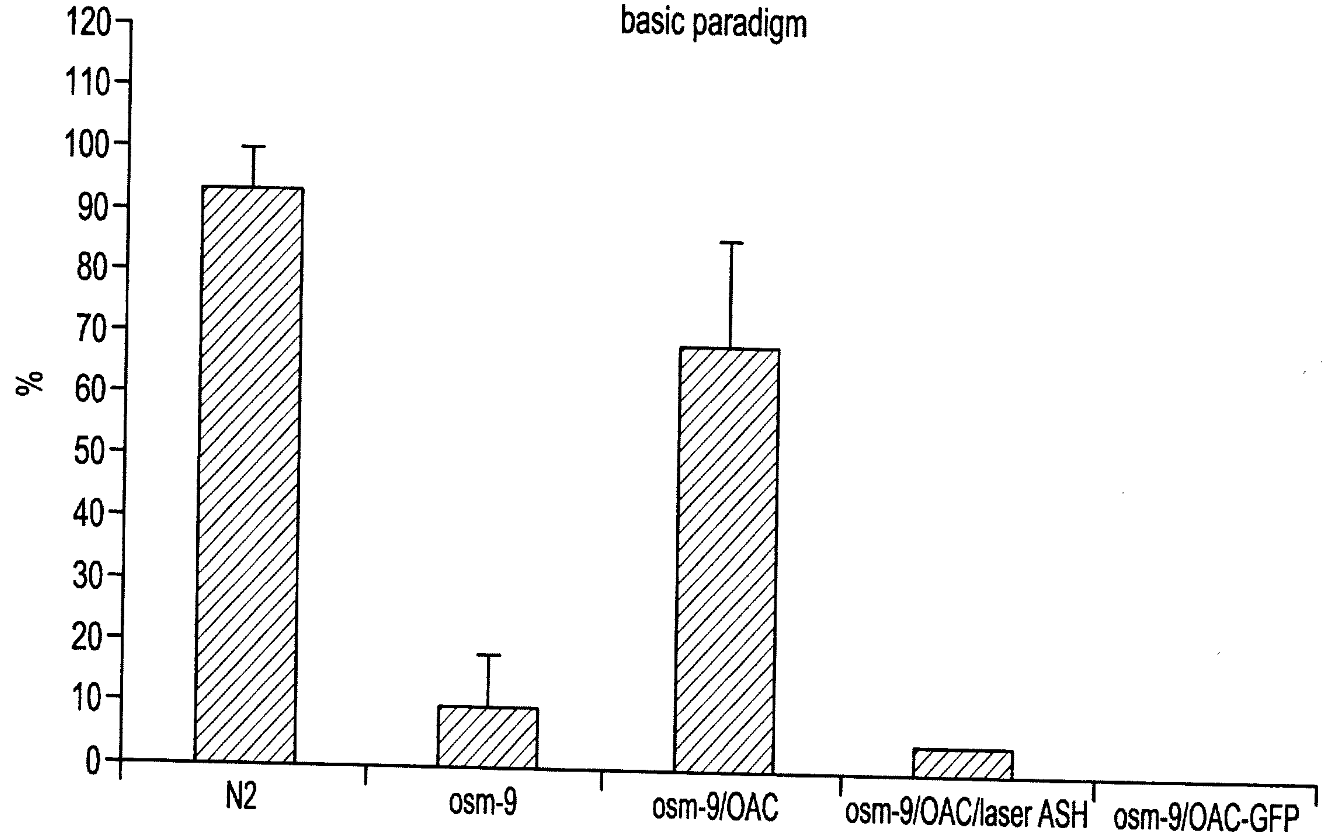

FIG. 15B

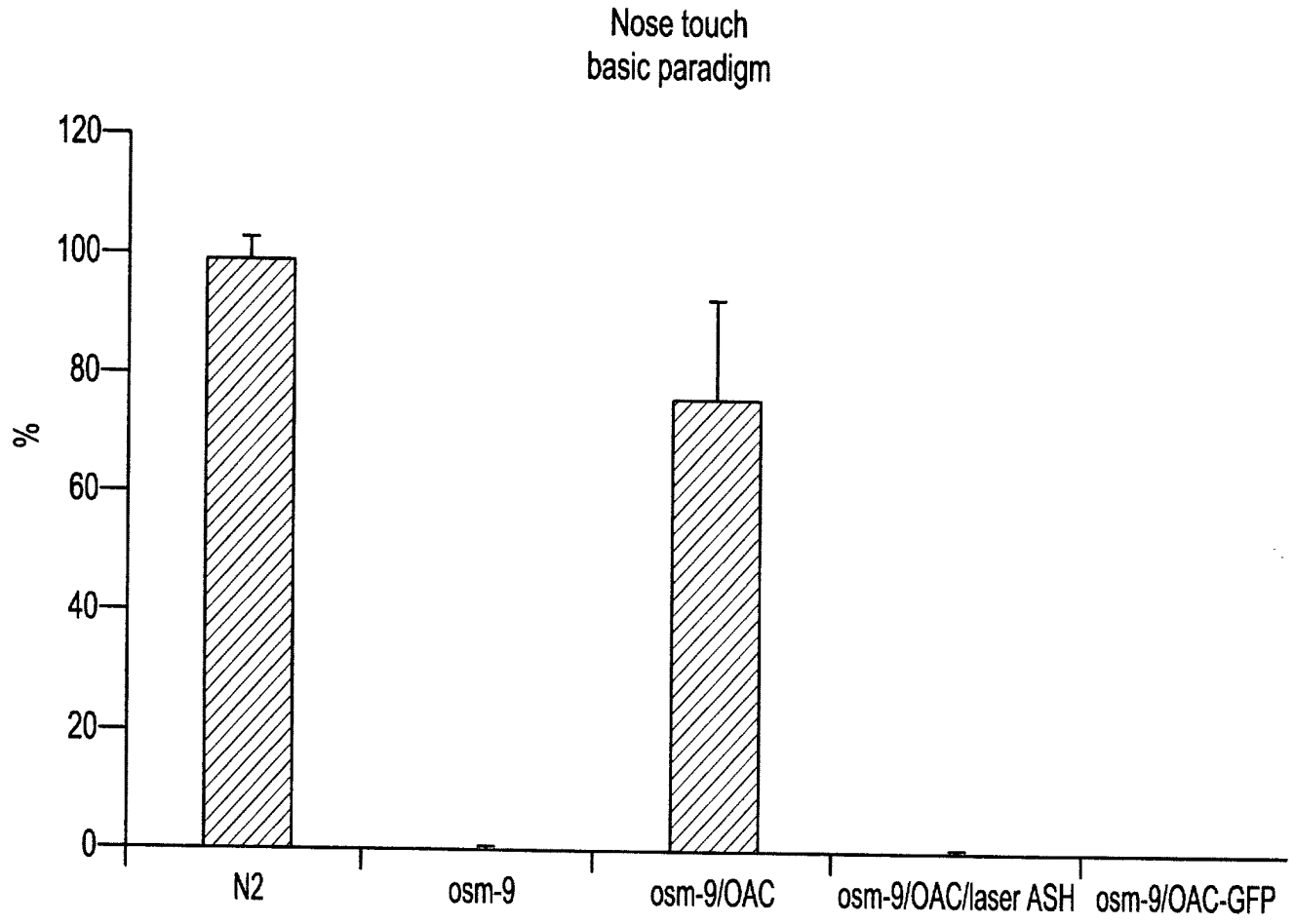

FIG. 16A

Nose touch
alternate mechanosensory pathway

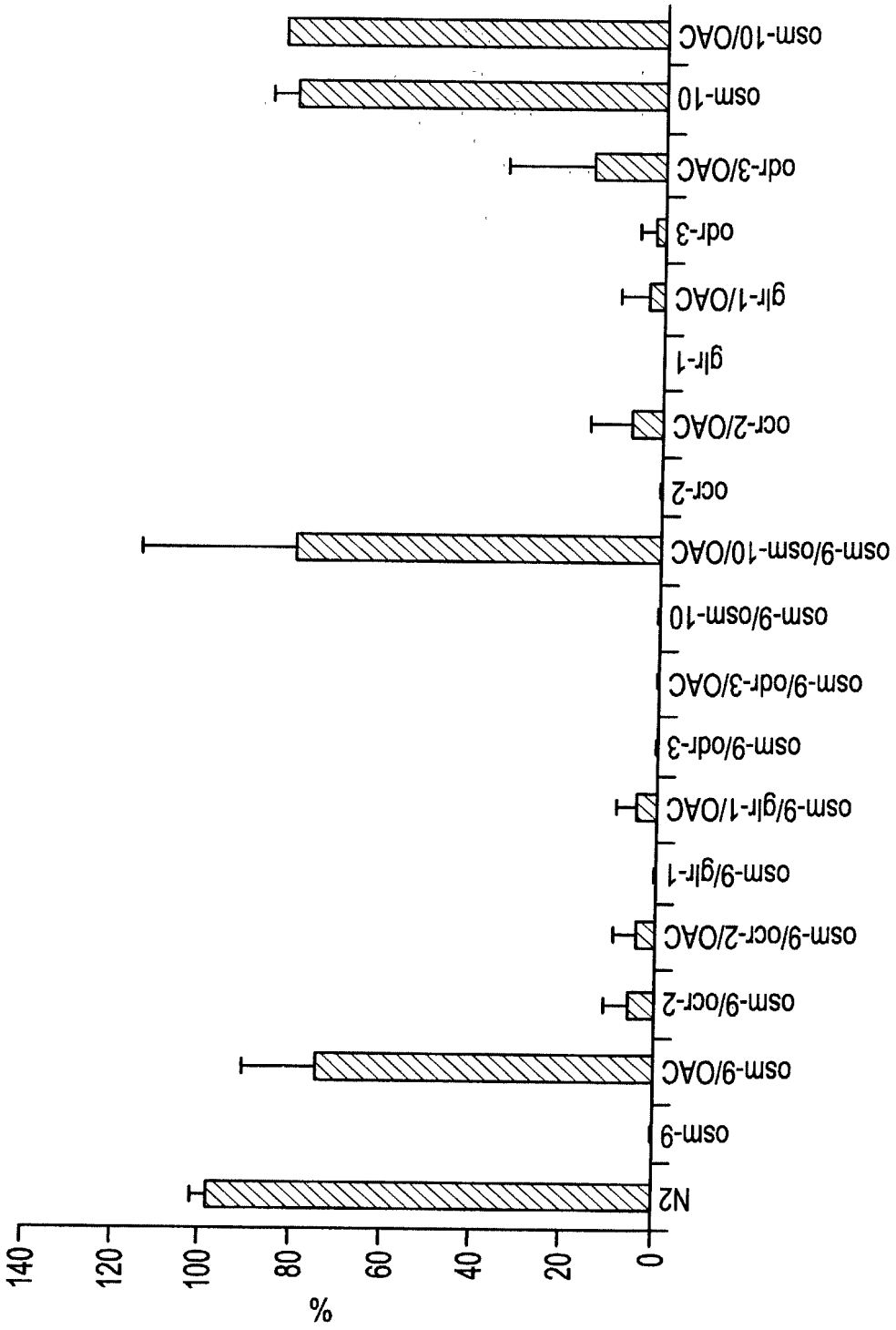

FIG. 16B

Osmotic avoidance
alternate mechanosensory pathway

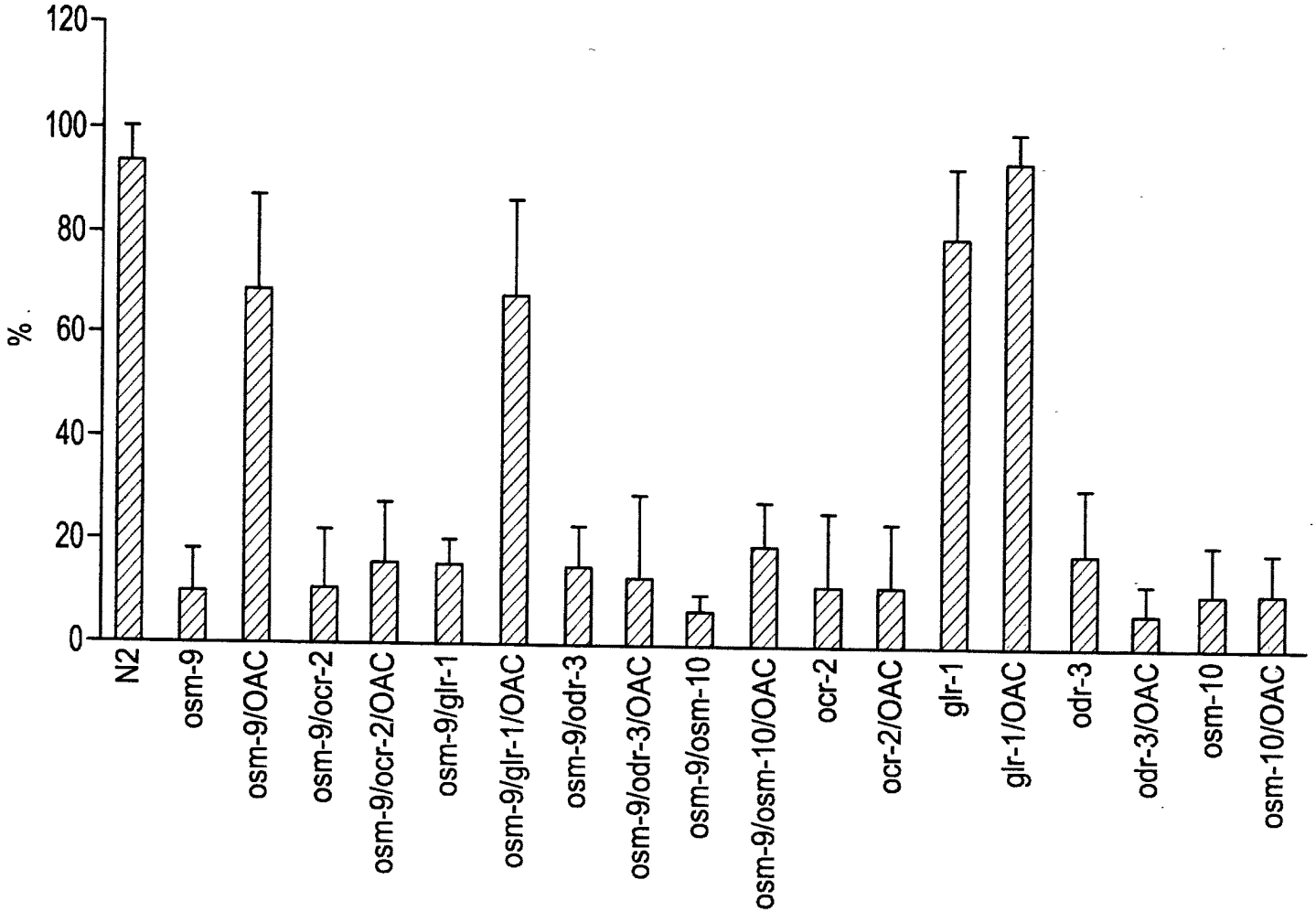

FIG. 17A

Osmotic avoidance
structure-function study

FIG. 17B

Nose touch
structure-function study